-continued

(D) TOPOLOGY: linear

(x i) SEQUENCE DESCRIPTION: SEQ ID NO:16:

GGGGAATTCG GATCCGGTAC CTCACAGACA GATGGARCAA GAAACATTGT 50

We claim:

1. Substantially pure, recombinant, mature, glycosylated influenza hemagglutinin produced by a baculovirus expression system in cultured insect cells, wherein said hemagglutinin protein is purified to 95% or greater and said protein is immunogenic, and induces a protective immune response when used as a vaccine.

2. A vaccine composition comprising the protein of claim 1, and a pharmaceutically acceptable carrier.

3. A vaccine composition comprising the protein of claim 1, and an adjuvant and a pharmaceutically acceptable carrier.

4. The vaccine composition of claim 2 wherein the pharmaceutically acceptable carrier is a polymeric delivery system.

5. The protein of claim 1 wherein the influenza is selected from the group consisting of influenza A strains and influenza B strains.

6. A method for vaccinating an animal against influenza comprising administering to the animal an effective amount of the protein of claim 1.

7. The method of claim 6 further comprising administering the protein in combination with an adjuvant.

8. The method of claim 6 further comprising administering the protein in a polymeric delivery system.

9. The method of claim 6 wherein the influenza is selected from the group consisting of influenza A strains and influenza B strains.

10. The method of claim 6 wherein the animal is selected from the group consisting of a mammal and an avian species.

11. The method of claim 6 wherein the animal is a human.

* * * * *